OIPE JC11
JAN 07 2005
PATENT & TRADEMARK OFFICE

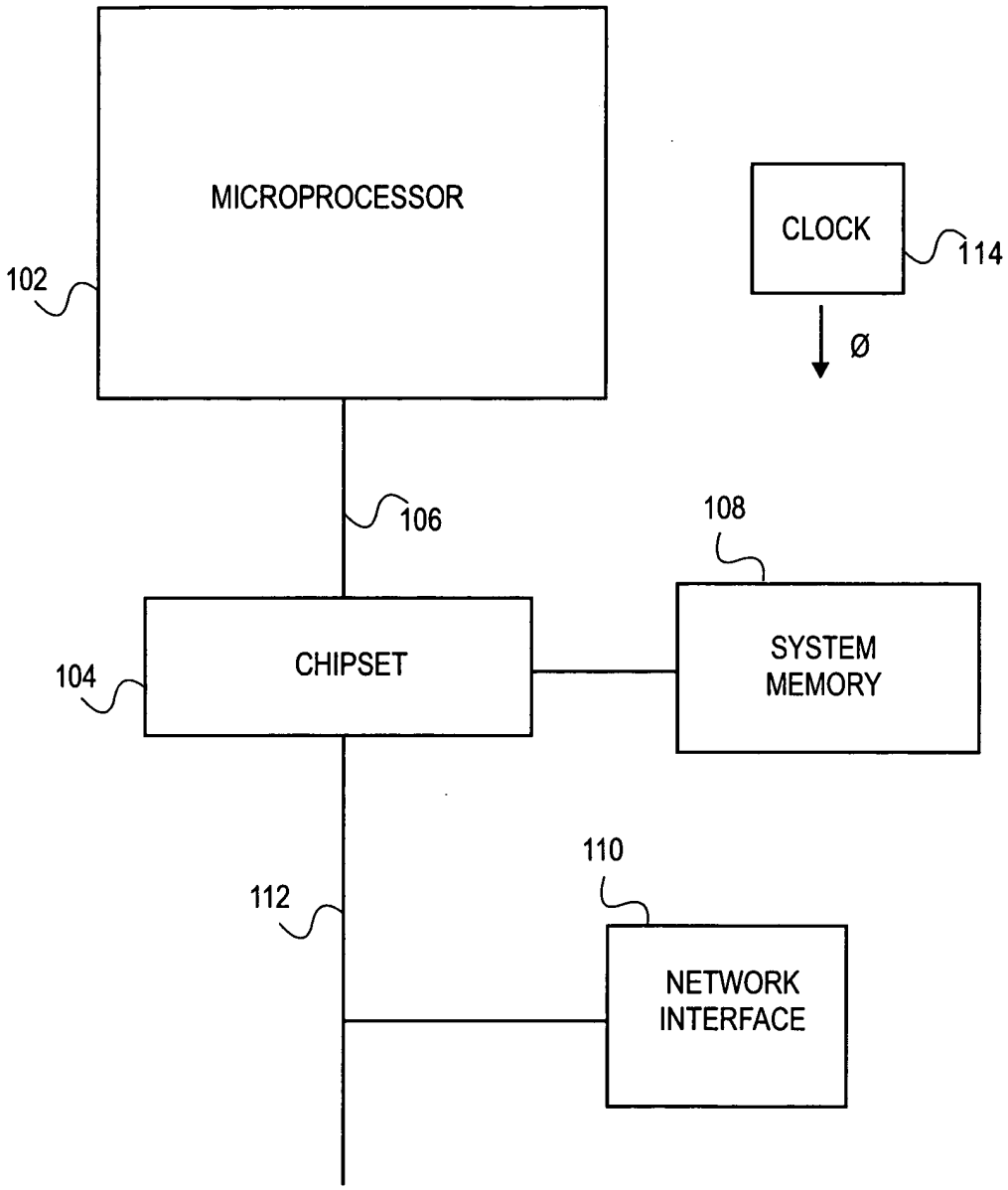

FIG. 1
(PRIOR ART)

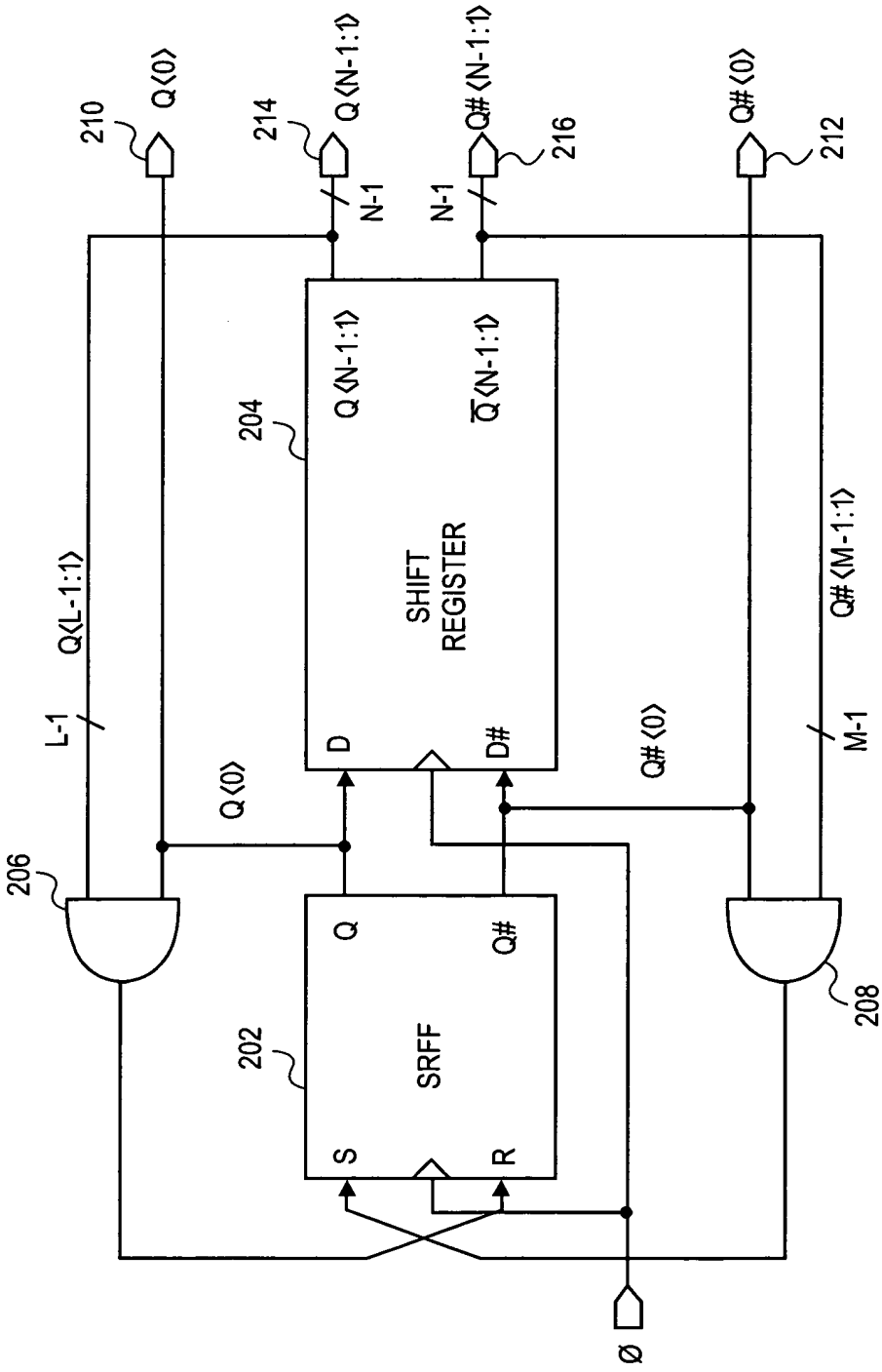
210
Q⟨0⟩
214
Q⟨N-1:1⟩
Q#⟨N-1:1⟩
216
Q#⟨0⟩
212
N-1
N-1
204
Q⟨N-1:1⟩
$\overline{Q}$⟨N-1:1⟩
SHIFT
REGISTER
D
D#
Q⟨L-1:1⟩
L-1
Q⟨0⟩
Q#⟨0⟩
Q#⟨M-1:1⟩
M-1
206
Q
Q#
202
SRFF
S
R
208
Ø

FIG. 2

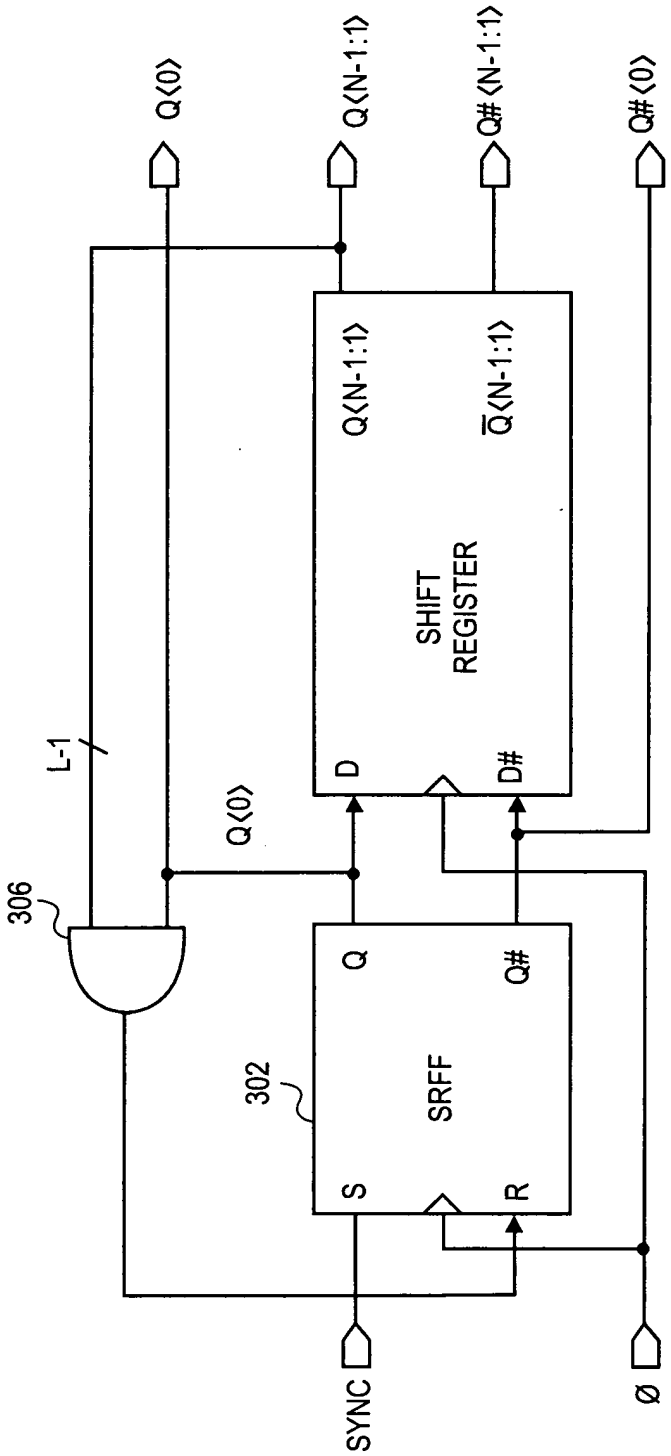
Q<0>
Q<N-1:1>
Q# <N-1:1>
Q# <0>
Q<N-1:1>
$\overline{Q}$<N-1:1>
SHIFT REGISTER
D
D#
L-1
Q<0>
306
Q
Q#
302
SRFF
S
R
SYNC
Ø

FIG. 3

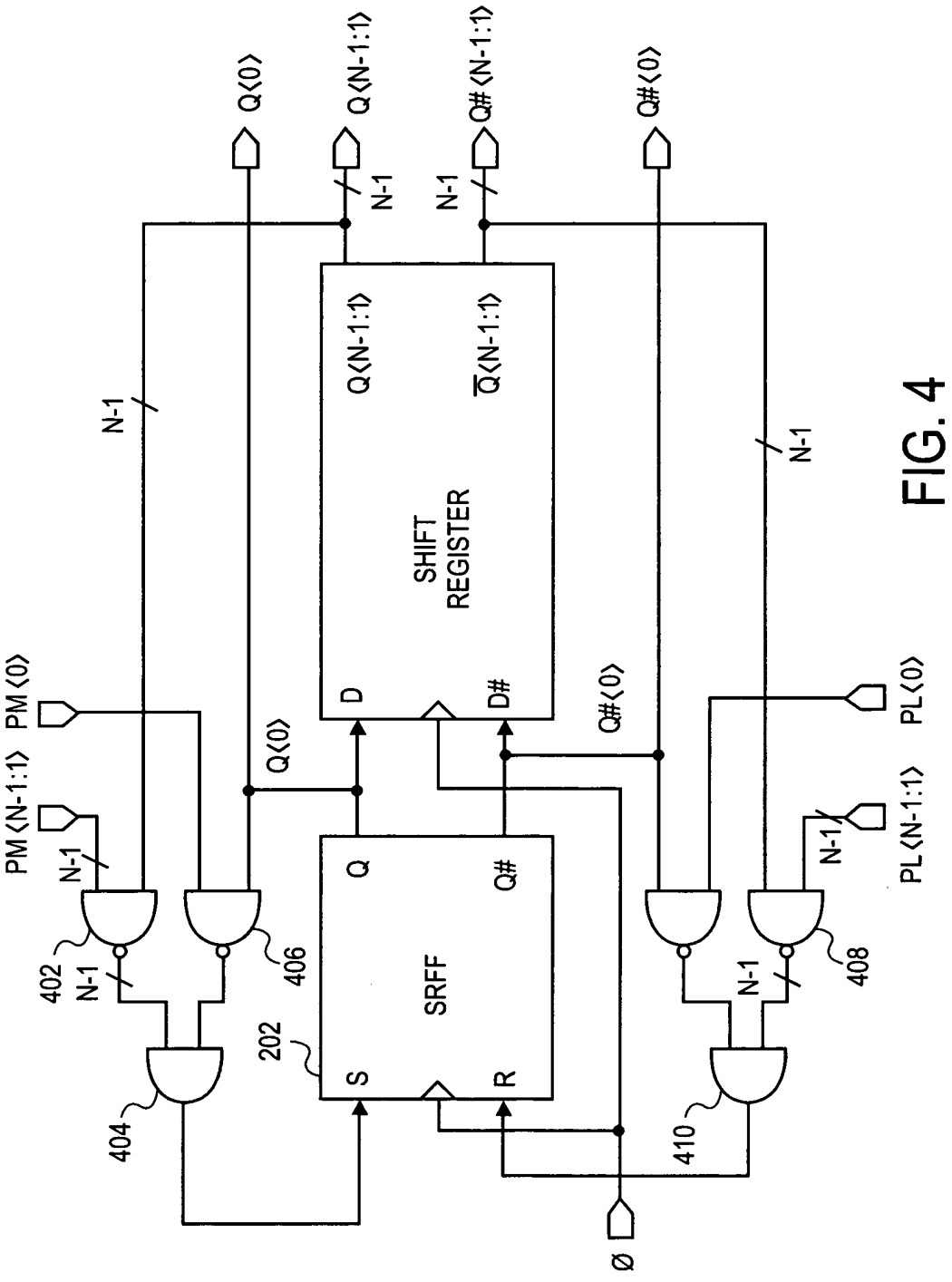
Q⟨0⟩
Q⟨N-1:1⟩
Q#⟨N-1:1⟩
Q#⟨0⟩
N-1
SHIFT REGISTER
D
D#
SRFF
Q
Q#
S
R
PM⟨0⟩
PM⟨N-1:1⟩
PL⟨0⟩
PL⟨N-1:1⟩
402
404
406
408
410
202
Ø

FIG. 4

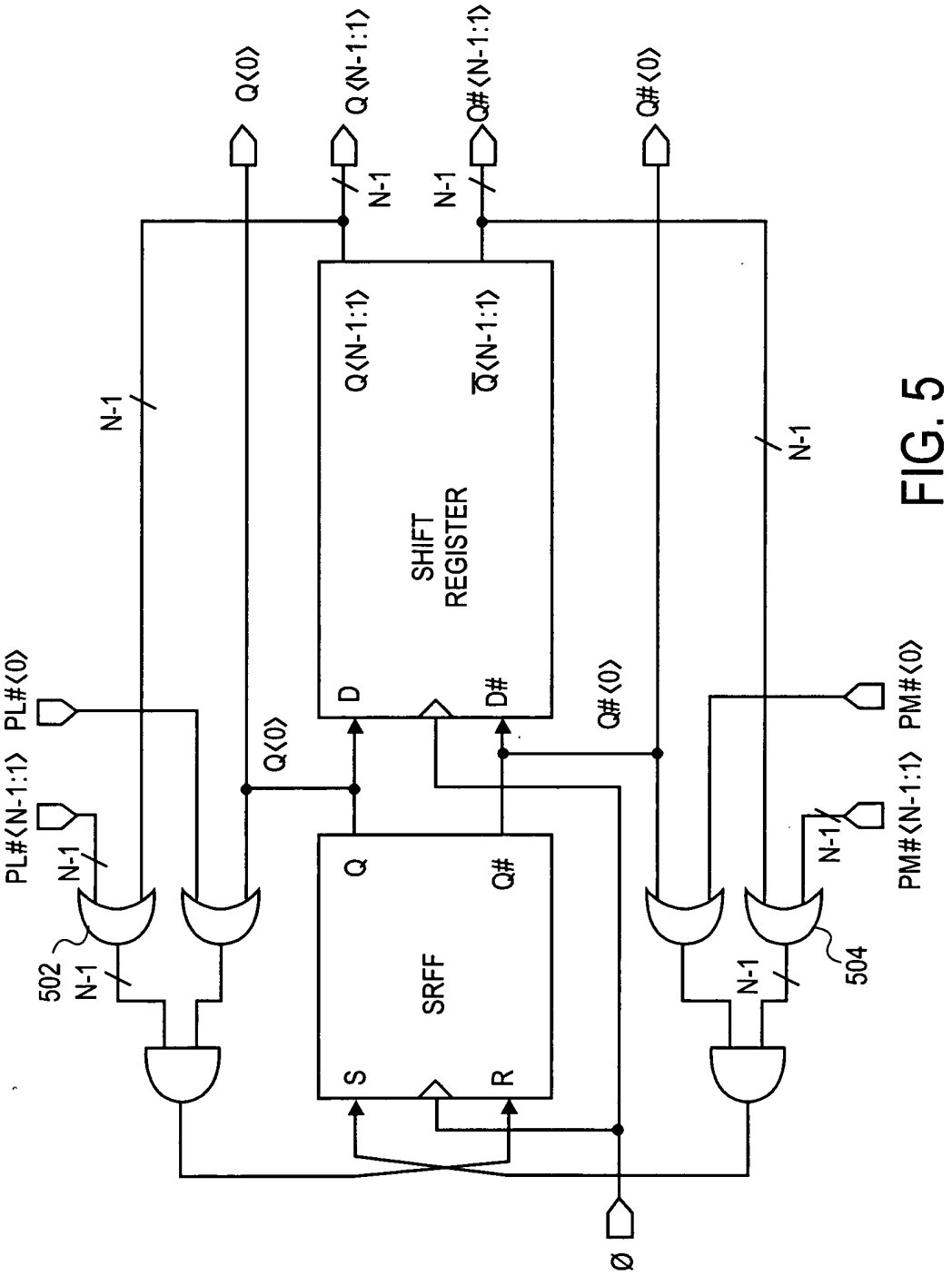
Q<0>
Q<N-1:1>
Q#<N-1:1>
Q#<0>
N-1
N-1
N-1
N-1
Q<N-1:1>
$\overline{Q}$<N-1:1>
SHIFT REGISTER
D
D#
PL#<0>
PL#<N-1:1>
PM#<0>
PM#<N-1:1>
Q<0>
Q#<0>
Q
Q#
SRFF
S
R
502
504
Ø

FIG. 5

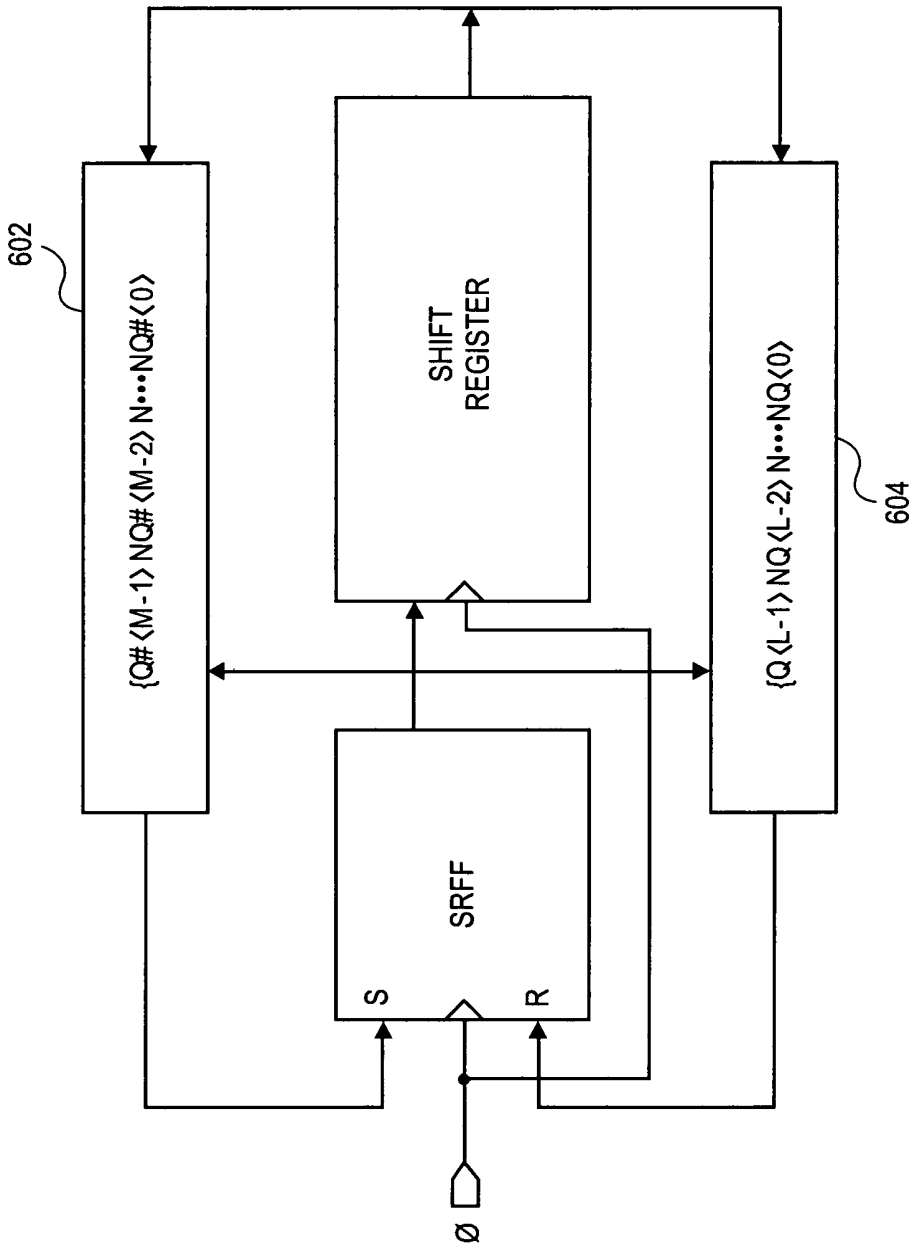

FIG. 6